

Inside this Issue

- ⇒ Coating System for the Elevator Industry
- ⇒ The increasing demand for improved traction quality.
- ⇒ Protect against the wear created from cast iron sheaves and higher MPa ropes.
- ⇒ Surfaces coatings that minimize wear characteristics for the sheaves.
- ⇒ TRACTkote® will extend the service life of the sheave.

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TRACTkote®

Coating System for the Elevator Industry

The Situation

In the Elevator Industry, there are greater demands for higher wear resistance of traction in sheaves. As traditional OEM sheaves fail to meet the optimised performance, due to rapid wear and rifling in grooves.

“The basic factor governing wear is the types of metal to metal wear.”

The most significant factors governing this are the following:-

1. Microstructure and hardness of the surfaces which are in contact.
2. Loads on the surfaces.
3. Speeds and frequency of the relative movements of these surfaces.
4. Friction coefficients of the considered metals.
5. Uneven loading's on ropes with continuous service.
6. Misalignment of ropes on sheaves.

All these factors accentuate the wear phenomena, and tend to lead towards replacement sheaves.

By thermal coating a sheave with TRACTkote® . The sheave life will be greatly extended. The coating has also proven to enhance the traction on the sheaves.

Our Solution

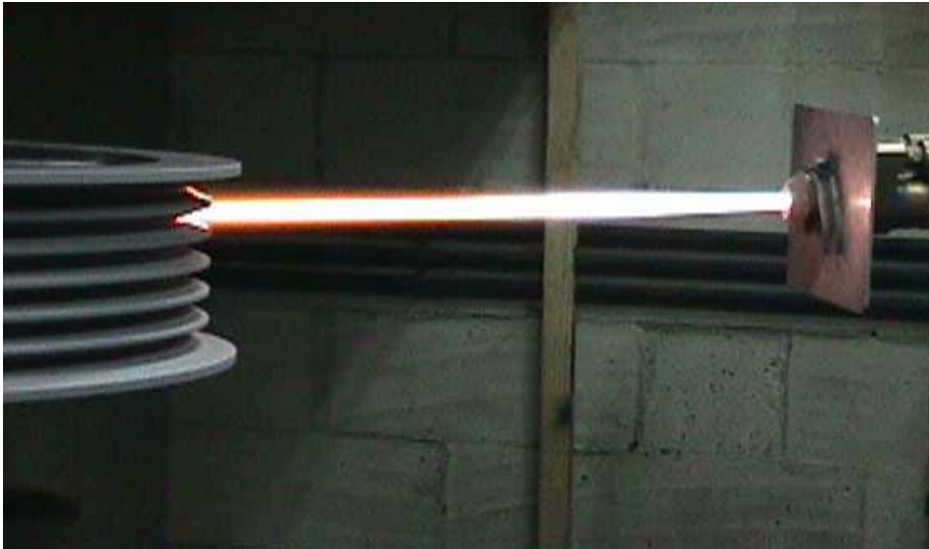
The TRACTkote® coating system –e.g. for traction and diverter sheaves, have been developed together with leading companies in the Lift industry, has been used to prolong the life of sheaves.

TRACTkote® coating is the ideal answer for the customized solution designed to protect against the wear created from cast iron sheaves and higher MPa ropes.

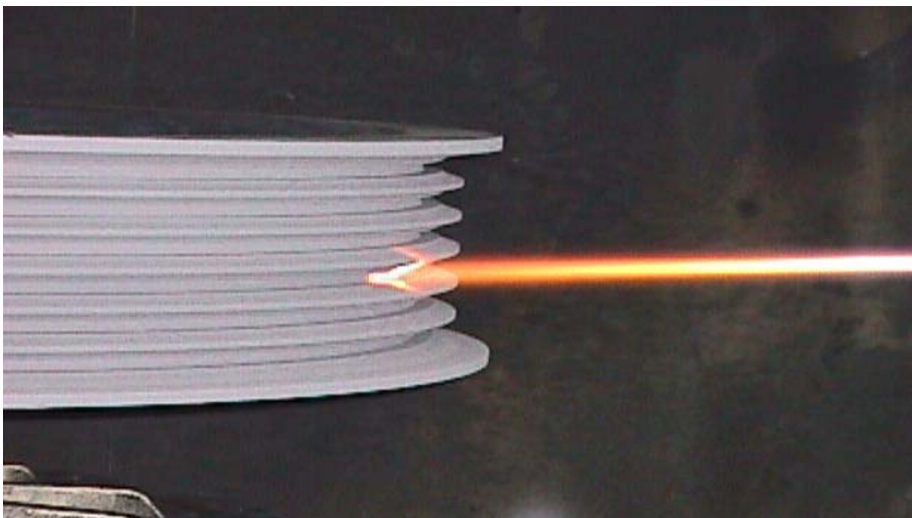
New functional surface coatings are creating improved wear characteristics for the sheaves.

The importance of this TRACTkote® development becomes clear when you consider the typical application conditions and the increasing costs of continued maintenance along with any replacement costs.

DCL Component Services



Coating a Traction sheave with TRACTkote® using the Sulzer Metco HVOF (Diamond Jet Hybrid)



HVOF coating TRACTkote® showing the impact of the particles on the substrate.

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• Customer Benefits

- DCL's use of the most modern coating equipment in Australia, the SULZER METCO HVOF Diamond Jet combined with the application of custom-made materials means that the DCL Engineering Group is able to deliver the highest quality for the performance required with in the shortest delivery times.
- The DCL Engineering Group have been exclusively Licensed by Sulzer Metco as the Austral-Asian approved applicator for TRACTkote® .
- TRACTkote® application will improve the traction qualities between rope and sheave, also minimizing on lift down time.
- TRACTkote® will also lower long term maintenance costs.

TRACTkote® : Coating to improve sheave wear.